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1642

D. Harris  
A. Hannis

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/274,752D

DATE: 05/01/2001

TIME: 18:10:05

Input Set : A:\A-67501.app

Output Set: N:\CRF3\05012001\I274752D.raw

PH#17

ENTERED

3 <110> APPLICANT: Goetzl, Edward L.  
4 An, Songzhu  
6 <120> TITLE OF INVENTION: Human Polypeptide Receptors for Lysophospholipids and  
7 Sphingolipids and Nucleic Acids Encoding the Same  
9 <130> FILE REFERENCE: A-67501/DJB/TAL  
11 <140> CURRENT APPLICATION NUMBER: 09/274,752D  
12 <141> CURRENT FILING DATE: 1999-03-23  
14 <160> NUMBER OF SEQ ID NOS: 29  
16 <170> SOFTWARE: PatentIn Ver. 2.0  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 382  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Homo sapiens  
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27 Tyr Asn Asn Ser Gly Lys Glu Leu Ser Ser His Trp Arg Pro Lys Asp  
28 20 25 30  
30 Val Val Val Ala Leu Gly Leu Thr Val Ser Val Leu Val Leu Leu  
31 35 40 45  
33 Thr Asn Leu Leu Val Ile Ala Ala Ile Ala Ser Asn Arg Arg Phe His  
34 50 55 60  
36 Gln Pro Ile Tyr Tyr Leu Leu Gly Asn Leu Ala Ala Ala Asp Leu Phe  
37 65 70 75 80  
39 Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr  
40 85 90 95  
42 Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp  
43 100 105 110  
45 Thr Ser Leu Thr Ala Ser Val Ala Thr Leu Leu Ala Ile Ala Val Glu  
46 115 120 125  
48 Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg  
49 130 135 140  
51 Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly  
52 145 150 155 160  
54 Leu Gly Leu Leu Pro Ala His Ser Trp His Cys Leu Cys Ala Leu Asp  
55 165 170 175  
57 Arg Cys Ser Arg Met Ala Pro Leu Leu Ser Arg Ser Tyr Leu Ala Val  
58 180 185 190  
60 Trp Ala Leu Ser Ser Leu Leu Val Phe Leu Leu Met Val Ala Val Tyr  
61 195 200 205  
63 Thr Arg Ile Phe Phe Tyr Val Arg Arg Arg Val Gln Arg Met Ala Glu  
64 210 215 220  
66 His Val Ser Cys His Pro Arg Tyr Arg Glu Thr Thr Leu Ser Leu Val  
67 225 230 235 240  
69 Lys Thr Val Val Ile Ile Leu Gly Ala Phe Val Val Cys Trp Thr Pro  
70 245 250 255  
72 Gly Gln Val Val Leu Leu Leu Asp Gly Leu Gly Glu Ser Cys Asn

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73      260          265          270
75 Val Leu Ala Val Glu Lys Tyr Phe Leu Leu Leu Ala Glu Ala Asn Ser
76      275          280          285
78 Leu Val Asn Ala Ala Val Tyr Ser Cys Arg Asp Ser Glu Met Arg Arg
79      290          295          300
81 Thr Phe Arg Arg Leu Leu Cys Cys Ala Cys Leu Arg Gln Ser Thr Arg
82 305            310          315          320
84 Glu Ser Val His Tyr Thr Ser Ser Ala Gln Gly Gly Ala Ser Thr Arg
85      325          330          335
87 Ile Met Leu Pro Glu Asn Gly His Pro Leu Met Thr Pro Pro Phe Ser
88      340          345          350
90 Tyr Leu Glu Leu Gln Arg Tyr Ala Ala Ser Asn Lys Ser Thr Ala Pro
91      355          360          365
93 Asp Asp Leu Trp Val Leu Leu Ala Gln Pro Asn Gln Gln Asp
94      370          375          380
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98 <211> LENGTH: 1734
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 2
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105 atccggcttct tctataacaa cagtggcaaa gagctcagct cccactggcg gcccaaggat 180
106 gtgtcgtgg tggcactggg gctgaccgtc agcgtgctgg tgctgctgac caatctgctg 240
107 gtcatacgac ccatcgccctc caaccggcgc ttccaccagac ccatactacta cctgctcgcc 300
108 aatctggccg cggctgacct ctgcggggc gtggcctacc tcttcctcat gttccacact 360
109 ggccccgcga cagcccgact ttcaatttag ggtctggttcc tgccggcaggc cttgctggac 420
110 acaaggctca ctgcgtcggt ggccacactg ctggccatcg ccgtggagct gcaccgcagt 480
111 gtatgtccg tgcagctgca cagccgcctg cccctggcc gctgtgtcat gtcatttgt 540
112 ggcgtgtggg tggctgcctt gggcttgggg ctgtgtccctg cccactcctg gcactgcctc 600
113 tgtgcctgg accgtgtc acgtatggca cccctgtcta ggcgtctcta tttggccgtc 660
114 tggctctgt cgagccgtc tgcattctgt ctcatgttg ctgtgtacac ccgcattttc 720
115 ttctacgtgc ggcggcgagt gcagccgtat gcagacatg tcactgtcca ccccgctac 780
116 cgagagacca ctgcgtcggt ggtcaagact gttgtcatca tccctggggc gttcgtggc 840
117 tgctggacac caggcccgat ggtactgtc ctggatgggt taggctgtga gtccgtcaat 900
118 gtccctggctg tagaaaaatg cttccatgt ctggccgagg ccaactact ggtcaatgt 960
119 gctgtgtact cttgccgaga tgctgagatg cggccgaccc tccggccct tctctgtc 1020
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121 gccagcactc gcatcatgtc tcccggaaac ggccacccac tgatgactcc accctttac 1140
122 taccttgaac ttcagcggtt cgcggcaagc aacaaatcca cagccctga tgacttgtgg 1200
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124 gcacagcacc actgccaggc ctccccaggc acaccactct gcccaggaa tggggcttt 1320
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127 gcccgtggta ctggtaatg ctgtgtatg ctggatgggtt taaggtgggg agagataagg 1500
128 gctctctgg gccatgtac ccggatgtac tgggtaatga ggacagactg tggacacccc 1560
129 atctacactga gtctgattt ttagcagcag agactgaggg gtgcagatg tgagctggga 1620
130 aaggtttggt gctccttgcg gcctccaggc actggccctgt ccccaataga attgaagcag 1680
131 tccacgggaa ggggatgata caaggatcaa acctttctt acactcaaaa aaaa 1734

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PATENT APPLICATION: US/09/274,752D

DATE: 05/01/2001  
TIME: 18:10:05

Input Set : A:\A-67501.app  
Output Set: N:\CRF3\05012001\I274752D.raw

133 <210> SEQ ID NO: 3  
 134 <211> LENGTH: 353  
 135 <212> TYPE: PRT  
 136 <213> ORGANISM: Homo sapiens  
 138 <400> SEQUENCE: 3  
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 140 1 5 10 15  
 142 His Tyr Asn Tyr Thr Lys Glu Thr Leu Glu Thr Gln Glu Thr Thr Ser  
 143 20 25 30  
 145 Arg Gln Val Ala Ser Ala Gly Ile Val Ile Leu Cys Cys Ala Ile Val  
 146 35 40 45  
 148 Val Glu Asn Leu Leu Val Leu Ile Ala Val Ala Arg Asn Ser Lys Phe  
 149 50 55 60  
 151 His Ser Ala Met Tyr Leu Phe Leu Gly Asn Leu Ala Ala Ser Asp Leu  
 152 65 70 75 80  
 154 Leu Ala Gly Val Ala Phe Val Ala Asn Thr Leu Leu Ser Gly Ser Val  
 155 85 90 95  
 157 Thr Leu Arg Leu Thr Pro Val Gln Trp Phe Ala Arg Glu Gly Ser Ala  
 158 100 105 110  
 160 Ser Ile Thr Leu Ser Ala Ser Val Gly Ser Leu Leu Ala Ile Ala Ile  
 161 115 120 125  
 163 Glu Arg His Val Ala Ile Ala Lys Val Lys Leu Tyr Gly Ser Cys Lys  
 164 130 135 140  
 166 Ser Cys Arg Met Leu Leu Ile Gly Ala Ser Trp Leu Ile Ser Leu  
 167 145 150 155 160  
 169 Val Leu Gly Gly Leu Pro Ile Leu Gly Trp Asn Cys Leu Gly His Leu  
 170 165 170 175  
 172 Glu Ala Cys Ser Thr Val Leu Pro Leu Tyr Ala Lys His Tyr Val Leu  
 173 180 185 190  
 175 Cys Val Val Thr Ile Phe Ser Ile Ile Leu Leu Ala Ile Val Ala Leu  
 176 195 200 205  
 178 Tyr Val Arg Ile Tyr Cys Val Val Arg Ser Ser His Ala Asp Met Ala  
 179 210 215 220  
 181 Ala Pro Gln Thr Leu Ala Leu Leu Lys Thr Val Thr Ile Val Leu Gly  
 182 225 230 235 240  
 184 Val Phe Ile Val Cys Trp Leu Pro Ala Phe Ser Ile Leu Leu Leu Asp  
 185 245 250 255  
 187 Tyr Ala Cys Pro Val His Ser Cys Pro Ile Leu Tyr Lys Ala His Tyr  
 188 260 265 270  
 190 Phe Phe Ala Val Ser Thr Leu Asn Ser Leu Leu Asn Pro Val Ile Tyr  
 191 275 280 285  
 193 Thr Trp Arg Ser Arg Asp Leu Arg Arg Glu Val Leu Arg Pro Leu Gln  
 194 290 295 300  
 196 Cys Trp Arg Pro Gly Val Gly Val Gln Gly Arg Arg Arg Val Gly Thr  
 197 305 310 315 320  
 199 Pro Gly His His Leu Leu Pro Leu Arg Ser Ser Ser Ser Leu Glu Arg  
 200 325 330 335  
 202 Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly Asn Thr Val  
 203 340 345 350

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Input Set : A:\A-67501.app  
Output Set: N:\CRF3\05012001\I274752D.raw

205 Val  
 209 <210> SEQ ID NO: 4  
 210 <211> LENGTH: 1122  
 211 <212> TYPE: DNA  
 212 <213> ORGANISM: Homo sapiens  
 214 <400> SEQUENCE: 4  
 215 atggcagct tgtactcgga gtacctgaac cccaacaagg tccaggaaca ctataattat 60  
 216 accaaggaga cgctggaaac gcaggagacg acctccgc aggtggctc ggccttcata 120  
 217 gtcatcttgc ttgcgcatt gcaggagacg acctccgc aggtggctc ggccttcata 180  
 218 gtcatcttgc ttgcgcatt ttgcgtggaa aacccatctgg tgctcattgc ggtggccgaa 240  
 219 aacagcaagt tccactcgcc aatgtacctg ttctggca acctggccgc ctccgatcta 300  
 220 ctggcaggcg tggccttgc agccaatadd ttgcctctgc gctctgtcac gctgaggctg 360  
 221 acgcctgtgc agtggtttgc cgggagggc tgcctcca tcacgccttc ggctctgtc 420  
 222 ttacgcctcc tggccatcgc cattgagcgc cacgtggca ttgccaaggt caagctgtat 480  
 223 ggcagcaca agagctgcgc catgtttctg ctcatcgaaa cctcggtgc catctcgctg 540  
 224 gtcctcggtg gcctgcatt ccttgcgtgg aactgcctgg gccacctcga ggctctgtcc 600  
 225 actgtcttcgc ctcttacgc caagcattat gtgtgtgcg tggtagccat ctcttcata 660  
 226 atctctgtgg ccatcggtgc cctgtacgtg cgcacatctact gcgtggccg ctcaagccac 720  
 227 gtcacatgg cgcggccgcga gacgttagcc ctgtcaaga cggtcacccat cgtctgttaggc 780  
 228 gtcttatcg tctgtgtgcg gcccgcctt acgtatcttc ttctggacta tgctgtccc 840  
 229 gtcactcttgc gcccgcattt ctacaaagcc cactacttt tcgcgtcgc cacccgttaa 900  
 230 tccctgctca accccgtcat ctacacgtgg cgcagccggg acctgcggcg ggaggtgttt 960  
 231 cggccgctgc agtgcgtggcg gccgggggtg ggggtgcaag gacggaggcg ggtcggacc 1020  
 232 cggggccacc acctcctgcc actccgcagc tccagctccc tggagagggg catgcacatg 1080  
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 235 <210> SEQ ID NO: 5  
 236 <211> LENGTH: 375  
 237 <212> TYPE: DNA  
 238 <213> ORGANISM: Homo sapiens .  
 239 <400> SEQUENCE: 5  
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 242 aggcccgat ggtcatcatg ggccagtgc actacaacga gaccatcgcc ttcttctata 120  
 243 acaacagtgg caaagagctc agtcccact ggcggcccaa ggatgtggc gtggtggcac 180  
 244 tggggctgac cgtcagcggtg ctgggtctgc tgaccaatct gctggtcata gcagccatcg 240  
 245 cctccaaaccg cgcgttccac cagccatct actacctgcg cggcaatctg gcccgccgtg 300  
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 247 actttcaactt gaggg 375  
 249 <210> SEQ ID NO: 6  
 250 <211> LENGTH: 8  
 251 <212> TYPE: PRT  
 252 <213> ORGANISM: combination of rat and human.  
 254 <400> SEQUENCE: 6  
 255 Leu Leu Ala Ile Ala Ile Glu Arg  
 256 1 5  
 259 <210> SEQ ID NO: 7  
 260 <211> LENGTH: 22  
 261 <212> TYPE: DNA  
 262 <213> ORGANISM: combination of rat and human.  
 264 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/274,752D

DATE: 05/01/2001

TIME: 18:10:05

Input Set : A:\A-67501.app  
Output Set: N:\CRF3\05012001\I274752D.raw

265 <221> NAME/KEY: misc\_feature  
266 <222> LOCATION: (6) /  
267 <223> OTHER INFORMATION: The n at position 6 can be g or c.  
269 <220> FEATURE:  
270 <221> NAME/KEY: misc\_feature  
271 <222> LOCATION: (12) /  
272 <223> OTHER INFORMATION: The n at position 12 can be c or t.  
274 <220> FEATURE:  
275 <221> NAME/KEY: misc\_feature  
276 <222> LOCATION: (17) /  
277 <223> OTHER INFORMATION: The n at position 17 can be c or t.  
279 <220> FEATURE:  
280 <221> NAME/KEY: misc\_feature  
281 <222> LOCATION: (21) /  
282 <223> OTHER INFORMATION: The n at position 21 can be a or c.  
284 <400> SEQUENCE: 7

W--&gt; 285 ctccctngcca tnngcatngag ng

22

287 <210> SEQ ID NO: 8  
288 <211> LENGTH: 8  
289 <212> TYPE: PRT  
290 <213> ORGANISM: combination of rat and human.  
292 <400> SEQUENCE: 8  
293 Leu Leu Leu Leu Asp Ser Thr Cys  
294 1 5  
297 <210> SEQ ID NO: 9  
298 <211> LENGTH: 22  
299 <212> TYPE: DNA  
300 <213> ORGANISM: combination of rat and human.  
302 <220> FEATURE:  
303 <221> NAME/KEY: misc\_feature  
304 <222> LOCATION: (4) /  
305 <223> OTHER INFORMATION: The n at position 4 can be c or g.  
307 <220> FEATURE:  
308 <221> NAME/KEY: misc\_feature  
309 <222> LOCATION: (6) /  
310 <223> OTHER INFORMATION: The n at position 6 can be a or c.  
312 <220> FEATURE:  
313 <221> NAME/KEY: misc\_feature  
314 <222> LOCATION: (7) /  
315 <223> OTHER INFORMATION: The n at position 7 can be a or g.  
317 <220> FEATURE:  
318 <221> NAME/KEY: misc\_feature  
319 <222> LOCATION: (8) /  
320 <223> OTHER INFORMATION: The n at position 8 can be a or c.  
322 <220> FEATURE:  
323 <221> NAME/KEY: misc\_feature  
324 <222> LOCATION: (9) /  
325 <223> OTHER INFORMATION: The n at position 9 can be a or g.  
327 <220> FEATURE:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/274,752D

DATE: 05/01/2001

TIME: 18:10:06

Input Set : A:\A-67501.app

Output Set: N:\CRF3\05012001\I274752D.raw

L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9